



COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010478
CERTIFICATION DATE: November 21, 2013
DATE RECERTIFICATION DUE: May 20, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.

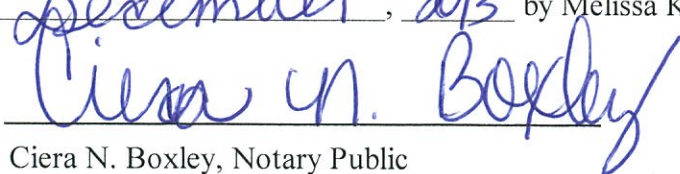


Melissa Kennedy

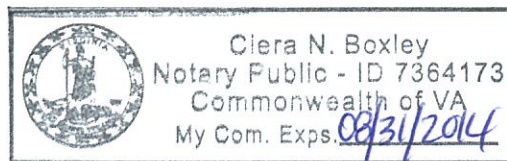
Program Manager, Calibration & Training

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 2nd day of December, 2013 by Melissa Kennedy


Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014
TLN



**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 11/25/2013**

HMS
NSK

Instrument Serial Number: 010478

As of 25-Nov-13

Maintenance Date	Certification Date	Technician Initials	Remarks
21-Nov-13	21-Nov-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
29-May-13	29-May-13	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
19-Dec-12	19-Dec-12	HMS (18910)	CERTIFIED
11-Jul-12	11-Jul-12	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
26-Jan-12	26-Jan-12	HMS (18910)	CERTIFIED
09-Aug-11	09-Aug-11	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
28-Feb-11	28-Feb-11	HMS (18910)	CERTIFIED
15-Sep-10	15-Sep-10	HMS (18910)	CERTIFIED
22-Jun-10	29-Mar-10	HMS (18910)	REPLACED DRY GAS STANDARD.
29-Mar-10	29-Mar-10	HMS (18910)	CERTIFIED
08-Oct-09	08-Oct-09	HMS (18910)	CERTIFIED.
22-Apr-09	22-Apr-09	DBH (21250)	CERTIFIED.
07-Apr-09	07-Apr-09	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
06-Apr-09	06-Apr-09	RJP (22428)	REPLACED TANK TOP LID. CERTIFIED.
28-Oct-08	28-Oct-08	HMS (18910)	CERTIFIED.
09-Oct-08	09-Oct-08	HMS (18910)	CALIBRATED, CERTIFIED AND ACCEPTED.

AMS
MEL

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010478 Worksheet Start Date 11/21/2013

Location Chase City Police Department

Address 219 E. 2nd St., Chase City, VA 23924

DFS Technician Heather Stanton License No. 18910

☐ Laboratory ☒ On-Site

Site Specifications

Yes No

1 Secured Environment:

Location must not be accessible to the general public.

☒ ☐

2 Environment free from contaminants

☒ ☐

3 Dedicated telephone line:

The phone line should be used solely by the instrument.

☒ ☐

4 Adequate Ventilation:

Enough space must be provided for the instrument and the printer to allow for adequate ventilation.

☒ ☐

5 Stable temperature controls:

The instrument should not be exposed to direct sources of temperature variation.

☒ ☐

6 115VAC power source:

Whenever possible instrument power circuit should not be shared with refrigerators, copy machines or other high amperage devices.

☒ ☐

7 Room Condition:

The site should be free of excessive moisture, heat and dust.

☒ ☐

Old serial no. _____

E-Seek _____

Keyboard _____

Printer _____

UPS _____

New serial no. _____

Supplies _____

Mouthpieces _____

Certificates of Analysis _____

Operator Worksheet _____

Other: _____

50

Maintenance (if any) _____

Firmware/software upgrade. _____

Comments (if any) _____

Instrument Serial Number 010478

Certification Date 11/21/2013

Instrument Barometer (mm HG) 757

Reference Barometer (mm HG) 760

Reference Barometer(RB)Serial # 009113

RB Calibration Due 5/8/2014

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.250	0.249	0.241	0.256	Sample 2	0.247
Precision		sample min	sample max	Sample 3	0.247
0.001		0.247	0.248		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.150	0.149	0.144	0.153	Sample 2	0.149
Precision		sample min	sample max	Sample 3	0.149
0		0.149	0.149		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.080	0.080	0.077	0.083	Sample 2	0.080
Precision		sample min	sample max	Sample 3	0.080
0		0.080	0.080		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

all measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

☒ Calibrated☒ Certified☐ Replaced dry gas standard (+O-ring)

Dry gas standard Lot No. (with tank no.)

AG230501-33

☒ Measurement Assurance Check☒ Run a Breath Test (Instrument Test)

(successful completion denotes satisfactory condition of the item)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.100	0.099	0.096	0.102	Sample 2	0.100
Precision		sample min	sample max	Sample 3	0.100
0		0.100	0.100		

DFS Technician

Heath W. Starch

Date

11/25/13

Issuing Analyst

Melissa Kennedy

Date

11/26/13

Intox EC/IR II QA Worksheet

Issued by Calibration and Training Program Manager

Issue Date: 4-March-2013

TLN

DFS Document 250-F113

Revision 6

Page 2 of 2



COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY STANTON, HEATHER, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 18910	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 11/21/2013
TEST EQUIPMENT NUMBER 010478		

RESULTS: TIME SAMPLE TAKEN 10:18 EST

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____ SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____ OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 25 Nov 2013 at 09:08

Handwritten initials: HWS and NSK

Test Results

Instrument Serial Number 010478

Test # 000319 Subject Test

Test Location 1 Department of

Test Date 21 Nov 2013

Test Location 2 Forensic Science

Test Time 10:12

Remote/Local Local

Test Location 3

System Check Passed

Operator's Last Name STANTON

Agency DFS Central Lab

Card Serial Number 118910

Subject's Last Name INSTRUMENT

Subject's Middle Initial

Driver's License Number

Driver's License State

Operator's First Name HEATHER

License Number 18910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's First Name TEST

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Expiration 00/00/0000

Court Name DFS

End Date 21 Nov 2013 End Time 10:20

Result Time 10:18

Result Date 21 Nov 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 10:13

Data Type BLK

Sample Value 0.000

Sample Time 10:13

Data Type CHK

Sample Value 0.101

Sample Time 10:14

Data Type BLK

Sample Value 0.000

Sample Time 10:15

Data Type SUBJ

Sample Value 0.000

Sample Time 10:16

Data Type BLK

Sample Value 0.000

Sample Time 10:17

Data Type SUBJ

Sample Value 0.000

Sample Time 10:18

Data Type BLK

Sample Value 0.000

Sample Time 10:19

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG230501-33

Standard Expiration Date 10/31/2014

Tank Pressure 1115

Barometric Pressure 757 mmHg

Blow Sample Number 1 Blow Duration 3.32 sec

Blow Volume 1730 cc End-of-Blow Time 10:16

Blow Sample Number 2 Blow Duration 3.44 sec

Blow Volume 1762 cc End-of-Blow Time 10:18

Tamper Evident Stamp d894d6c3

Test Status Code 0

Test Status Success

HMS

WHL

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010478 Test Number: 320
Test Date: 11/21/2013 Test Time: 10:23 EST

Technician Initials: HMS

Dry Gas Target: 0.100

Lot Number: AG230501-33 Exp Date: 10/31/2014

Tank Pressure: 1115 psi Barometric Pressure: 756 mmHg

Test	g/210L	Time
DIAG	Pass	10:24
BLK	0.000	10:25
CHK	0.101	10:25
BLK	0.000	10:26
CHK	0.101	10:27
BLK	0.000	10:28
CHK	0.100	10:29
BLK	0.000	10:30

Success

Standard Value (at sea level): 0.100 g/210L

Certification Status: Success

One point certification done prior to firmware/software upgrade due to certification warning on display.

HMS
11/21/13

AMS
msk

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010478 Test Number: 321

Test Date: 11/21/2013 Test Time: 10:33 EST

Dry Gas Target: 0.100

Lot Number: AG230501-33 Exp Date: 10/31/2014

Tank Pressure: 1115 psi Barometric Pressure: 756 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:33
CHK	0.100	10:34
BLK	0.000	10:36
CHK	0.100	10:36
BLK	0.000	10:38
CHK	0.100	10:38

Test Status: *Success*

Calibration CRC: E275DF2D

Handwritten initials and signature in the top right corner.

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010478 Test Number: 322

Test Date: 11/21/2013 Test Time: 10:41 EST

Dry Gas Target: 0.298

Lot Number: AG322702-01 Exp Date: 08/15/2015

Tank Pressure: 174 psi Barometric Pressure: 756 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:41
CHK	0.300	10:42
BLK	0.000	10:44
CHK	0.299	10:44
BLK	0.000	10:46
CHK	0.299	10:46

Test Status: *Success*

Calibration CRC: E275DF2D

AMS
Ash

Intox EC/IR-II: Software Version

Department of Forensic Science

Serial Number: 010478

System Date: 11/21/2013

System Time: 11:07 EST

Software Version: VS00333-K

Software CRC: 56745BCA

Firmware Version: VS00171-CL

Firmware CRC: 7107756B

AMS
MSK

Intox EC/IR-II: Calibration

Department of Forensic Science

Serial Number: 010478 Test Number: 323

Test Date: 11/21/2013 Test Time: 11:10 EST

Dry Gas Target: 0.100

Lot Number: 0651210013-06 Exp Date: 04/01/2014

Tank Pressure: 585 psi Barometric Pressure: 756 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:10
CAL	0.100	11:11

Test Status: *Success*

Calibration CRC: 2DB7F49E

lms
NHL

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010478 Test Number: 324
Test Date: 11/21/2013 Test Time: 11:14 EST

Technician Initials: HMS

Dry Gas Target: 0.249

Lot Number: 2961225012-08 Exp Date: 11/01/2014

Tank Pressure: 262 psi Barometric Pressure: 756 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:14
BLK	0.000	11:15
CHK	0.248	11:16
BLK	0.000	11:17
CHK	0.247	11:18
BLK	0.000	11:20
CHK	0.247	11:21
BLK	0.000	11:22

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

lmo
msk

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010478 Test Number: 325
Test Date: 11/21/2013 Test Time: 11:24 EST

Technician Initials: HMS

Dry Gas Target: 0.149

Lot Number: 29512150I2-02 Exp Date: 11/01/2014

Tank Pressure: 781 psi Barometric Pressure: 755 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:24
BLK	0.000	11:25
CHK	0.149	11:26
BLK	0.000	11:27
CHK	0.149	11:28
BLK	0.000	11:29
CHK	0.149	11:30
BLK	0.000	11:32

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

HMS
WHL

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010478 Test Number: 326

Test Date: 11/21/2013 Test Time: 11:33 EST

Technician Initials: HMS

Dry Gas Target: 0.080

Lot Number: 0771308012-04 Exp Date: 05/01/2015

Tank Pressure: 821 psi Barometric Pressure: 755 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:34
BLK	0.000	11:34
CHK	0.080	11:35
BLK	0.000	11:37
CHK	0.080	11:37
BLK	0.000	11:39
CHK	0.080	11:39
BLK	0.000	11:41

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

HMS
MSL

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010478 Test Number: 327
Test Date: 11/21/2013 Test Time: 11:42 EST

Technician Initials: *HMS*

Dry Gas Target: 0.020

Lot Number: 0771302011-04 Exp Date: 05/01/2015

Tank Pressure: 924 psi Barometric Pressure: 755 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	11:42
BLK	0.000	11:43
CHK	0.019	11:44
BLK	0.000	11:45
CHK	0.019	11:46
BLK	0.000	11:47
CHK	0.019	11:48
BLK	0.000	11:49

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

Handwritten initials: "HND" and "NHL"

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010478 Test Number: 328

Test Date: 11/21/2013 Test Time: 11:52 EST

Dry Gas Target: 0.298

Lot Number: AG322702-01 Exp Date: 08/15/2015

Tank Pressure: 169 psi Barometric Pressure: 755 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:52
CHK	0.301	11:53
BLK	0.000	11:55
CHK	0.301	11:56
BLK	0.000	11:58
CHK	0.301	11:58

Test Status: *Success*

Calibration CRC: 2DB7F49E

HAS
MSU

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010478 Test Number: 329

Test Date: 11/21/2013 Test Time: 12:01 EST

Dry Gas Target: 0.099

Lot Number: AG230501-33 Exp Date: 10/31/2014

Tank Pressure: 1115 psi Barometric Pressure: 755 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:02
CHK	0.100	12:02
BLK	0.000	12:04
CHK	0.100	12:05
BLK	0.000	12:06
CHK	0.100	12:07

Test Status: *Success*

Calibration CRC: 2DB7F49E



COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

Handwritten initials: HWS and NOL

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY STANTON, HEATHER, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 18910	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 11/21/2013
TEST EQUIPMENT NUMBER 010478		

RESULTS: TIME SAMPLE TAKEN 12:15 EST

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____ SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____ OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 22 Nov 2013 at 10:50

T/L
JAW
MOL

Test Results

Instrument Serial Number 010478

Test # 000330 Subject Test

Test Location 1 Department of
Test Date 21 Nov 2013

Test Location 2 Forensic Science
Test Time 12:09
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M

License Number 18910

Card Serial Number 118910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 21 Nov 2013 End Time 12:16

Result Time 12:15

Result Date 21 Nov 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 12:09

Data Type BLK

Sample Value 0.000

Sample Time 12:10

Data Type CHK

Sample Value 0.100

Sample Time 12:10

Data Type BLK

Sample Value 0.000

Sample Time 12:12

Data Type SUBJ

Sample Value 0.000

Sample Time 12:13

Data Type BLK

Sample Value 0.000

Sample Time 12:14

Data Type SUBJ

Sample Value 0.000

Sample Time 12:15

Data Type BLK

Sample Value 0.000

Sample Time 12:16

Standard Type Dry Gas Std

Standard Value 0.099

Standard Lot Number AG230501-33

Standard Expiration Date 10/31/2014

Tank Pressure 1115

Barometric Pressure 754 mmHg

Blow Sample Number 1 Blow Duration 3.42 sec

Blow Volume 1740 cc End-of-Blow Time 12:13

Blow Sample Number 2 Blow Duration 3.57 sec

Blow Volume 1715 cc End-of-Blow Time 12:15

Tamper Evident Stamp b6aea72b

Test Status Code 0

Test Status Success